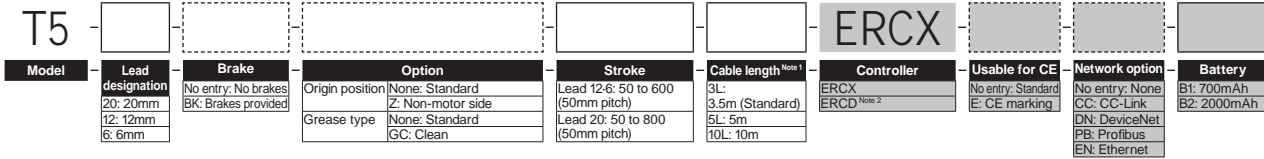


T5

High lead: Lead 20 Origin at non-motor side



Ordering method



Note 1. The robot cable is standard cable, but can be changed to bend-resistant cable. (consult factory)
Note 2. To find ERCD selection options, see the ordering method listed on each controller page.

Basic specifications

AC servo motor output (W)	30	
Repeatability ^{Note 1} (mm)	+/-0.02	
Deceleration mechanism	Ball screw (Class C10)	
Ball screw lead (mm)	20	12
Maximum speed ^{Note 2} (mm/sec)	1200	800
Maximum payload (kg)	Horizontal	3
	Vertical	5
Rated thrust (N)	Horizontal	19
	Vertical	32
Stroke (mm)	50 to 800 ^{Note 3} (50mm pitch)	
Overall length (mm)	Horizontal	Stroke+201.5
	Vertical	Stroke+239.5
Maximum dimensions of cross section of main unit (mm)	W55 x H52	
Cable length (m)	Standard: 3.5 / Option: 5, 10	
Linear guide type	2 rows of gothic arch grooves x 1 rail	
Position detector	Resolvers ^{Note 4}	
Resolution (Pulse/rotation)	16384	

Note 1. Positioning repeatability in one direction.
Note 2. When the stroke is longer than 650mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.
Note 3. 650mm or longer strokes are only available with high lead specifications (Lead 20).
Note 4. Position detectors (resolvers) are common to incremental and absolute specifications. If the controller has a backup function then it will be absolute specifications

Allowable overhang^{Note}

Horizontal installation (Unit: mm)	(Unit: mm)			Wall installation (Unit: mm)	(Unit: mm)			Vertical installation (Unit: mm)	(Unit: N-m)					
	A	B	C		A	B	C		A	C	MY	MP	MR	
Lead 20	1kg	600	323	683	Lead 20	1kg	600	291	600	Lead 12	1.2kg	242	240	
	3kg	675	103	247		Lead 12	3kg	215	73					589
	2kg	1170	159	406			Lead 6	2kg	368					127
Lead 6	5kg	555	59	155	Lead 6	5kg		127	30	449	2.4kg	113	113	
	3kg	1498	104	294		Lead 6		3kg	263	73				970
	9kg	628	31	89			Lead 6	9kg	54	0				400

Note 1. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

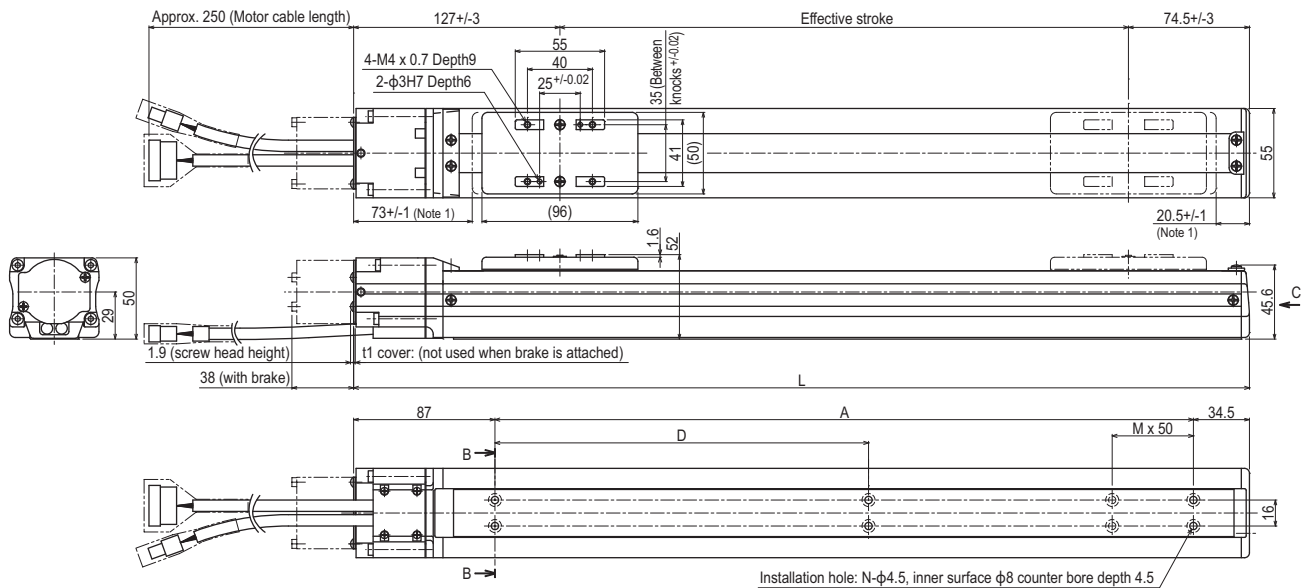
Static loading moment

MY	MP	MR
30	34	40

Controller

Controller	Operation method
ERCX	Programming / I/O point trace (BCD) / Remote command / Operation using RS-232C communication
ERCD	Pulse train control / Programming / I/O point trace (BCD) / Remote command / Operation using RS-232C communication

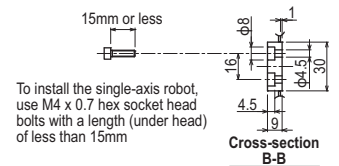
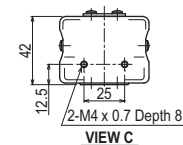
T5



Note 1. Distance from both ends to the mechanical stopper.
Note 2. Minimum bend radius of motor cable is R50.
Note 3. Weight of models with no brake. The weight of brake-attached models is 0.2 kg heavier than the models with no brake shown in the table.
Note 4. Effective strokes of 650 to 800 mm are only available with high lead specifications (Lead 20).

Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650 ^{Note 4}	700 ^{Note 4}	750 ^{Note 4}	800 ^{Note 4}
L	251.5	301.5	351.5	401.5	451.5	501.5	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5	1001.5
A	130	180	230	280	330	380	430	480	530	580	630	680	730	780	830	880
D	-	-	-	-	-	230	230	230	230	230	230	230	230	230	230	230
M	0	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9
N	4	6	8	10	12	14	6	8	10	12	14	16	18	20	22	24
Weight (kg) ^{Note 3}	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5
Maximum speed for each stroke ^{Note 5} (mm/sec)	Lead 20	1200											960	840	720	660
	Lead 12	800											-	-	-	-
	Lead 6	400											-	-	-	-
	Speed setting	-											80%	70%	60%	55%

Note 5. When the stroke is longer than 650mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table above.



T5H

● High lead: Lead 20

● Origin at non-motor side



Ordering method

T5H						SR1-X		05							
Model	Lead designation	Brake	Option		Stroke	Cable length^{Note 1}	Controller	Driver	Usable for CE	I/O selection	Battery				
	20: 20mm 12: 12mm 6: 6mm	No entry: No brakes BK: Brakes provided	Origin position	None: Standard Z: Non-motor side	Lead 12: 6: 50 to 600 (50mm pitch) Lead 20: 50 to 800 (50mm pitch)	3L: 3.5m (Standard) 5L: 5m 10L: 10m	SR1-X TS-X ^{Note 2}	05: 100W or less 105 (TS-X)	No entry: Standard E: CE marking	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link ^{Note 3}	No entry: None (Incremental specification) B: Battery (Absolute specification)				
			Grease type	None: Standard GC: Clean											

Note 1. The robot cable is standard cable, but can be changed to bend-resistant cable. (consult factory)

Note 2. To find TS-X see the ordering method listed on each controller's page.

Note 3. Available only for the SR1-X slave.

Basic specifications

AC servo motor output (W)	30		
Repeatability^{Note 1} (mm)	+/- 0.02		
Deceleration mechanism	Ball screw (Class C10)		
Ball screw lead (mm)	20	12	6
Maximum speed^{Note 2} (mm/sec)	1200	800	400
Maximum payload (kg)	Horizontal	3	5
	Vertical	-	1.2
Rated thrust (N)		19	32
Stroke (mm)	50 to 800 ^{Note 3} (50mm pitch)		
Overall length (mm)	Horizontal	Stroke+201.5	
	Vertical	Stroke+239.5	
Maximum dimensions of cross section of main unit (mm)	W55 x H52		
Cable length (m)	Standard: 3.5 / Option: 5, 10		
Linear guide type	2 rows of gothic arch grooves x 1 rail		
Position detector	Resolvers ^{Note 4}		
Resolution (Pulse/rotation)	16384		

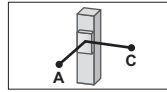
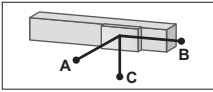
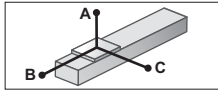
Note 1. Positioning repeatability in one direction.

Note 2. When the stroke is longer than 650mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.

Note 3. 650mm or longer strokes are only available with high lead specifications (Lead 20).

Note 4. Position detectors (resolvers) are common to incremental and absolute specifications. If the controller has a backup function then it will be absolute specifications.

Allowable overhang^{Note}



Horizontal installation (Unit: mm)

	A	B	C
Lead 20			
1kg	600	323	683
3kg	675	103	247
2kg	1170	159	406
5kg	555	59	155
3kg	1498	104	294
9kg	628	31	89

Wall installation (Unit: mm)

	A	B	C
Lead 20			
1kg	600	291	600
3kg	215	73	589
2kg	368	127	1082
5kg	127	30	449
3kg	263	73	970
9kg	54	0	400

Vertical installation (Unit: mm)

	A	C
Lead 12		
1.2kg	242	240
Lead 6		
2.4kg	113	113

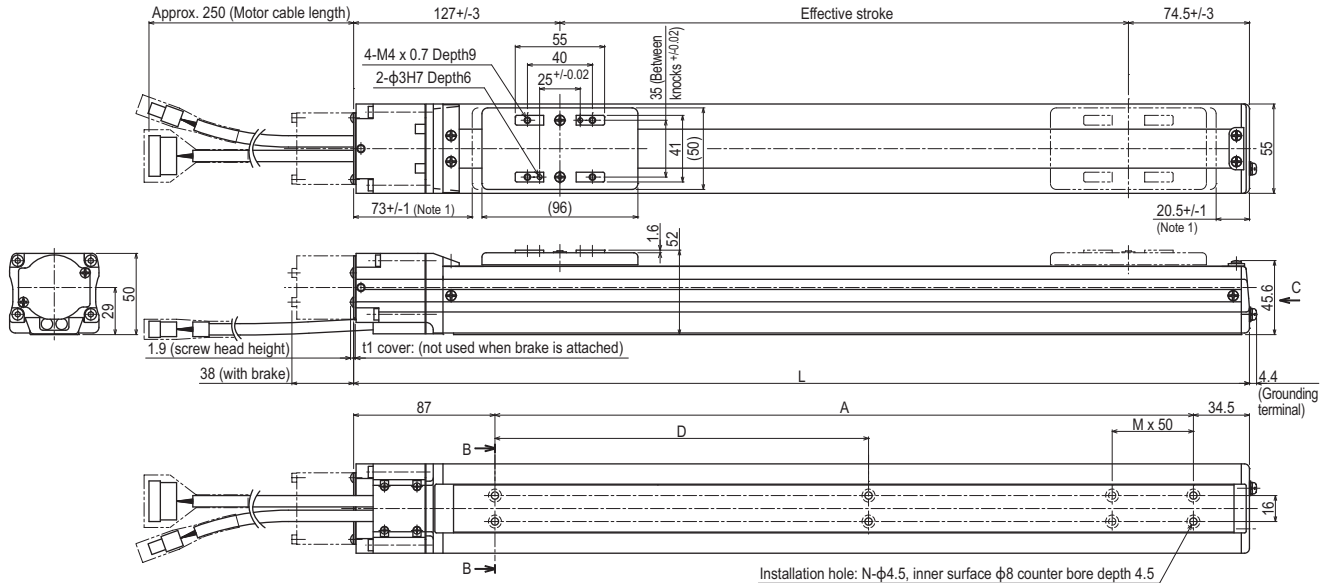
Static loading moment

	MY	MP	MR
(Unit: N-m)	30	34	40

Controller

Controller	Operation method
SR1-X-05	Programming / I/O point trace (BCD) / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace (BCD)

T5H



Note 1. Distance from both ends to the mechanical stopper.

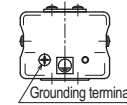
Note 2. Minimum bend radius of motor cable is R50.

Note 3. Weight of models with no brake. The weight of brake-attached models is 0.2 kg heavier than the models with no brake shown in the table.

Note 4. Effective strokes of 650 to 800 mm are only available with high lead specifications (Lead 20).

Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700 ^{Note 4}	750 ^{Note 4}	800 ^{Note 4}
L	251.5	301.5	351.5	401.5	451.5	501.5	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5	1001.5
A	130	180	230	280	330	380	430	480	530	580	630	680	730	780	830	880
D	-	-	-	-	-	230	230	230	230	230	230	230	230	230	230	230
M	0	1	2	3	4	5	0	1	2	3	4	5	6	7	8	9
N	4	6	8	10	12	14	6	8	10	12	14	16	18	20	22	24
Weight (kg)^{Note 3}	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5
Maximum speed for each stroke^{Note 5} (mm/sec)	Lead 20	1200											960	840	720	660
	Lead 12	800											-	-	-	-
	Lead 6	400											-	-	-	-
	Speed setting	-											80%	70%	60%	55%

Note 5. When the stroke is longer than 650mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table above.



VIEW C
Ground terminal installation position

